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## HENRY COUNTY

### (Henry County Water Service Area Map)

- Estimated 1999 population of 15,100--90% on public water
- Estimated 2020 population of 18,300--90% on public water
- 380 miles of water lines
- Estimated funding needs for public water 2000-2005: \$4,960,000
- Estimated funding needs for public water 2006-2020: \$9,750,000

Henry County had an estimated population of 15,145 (6,279 households) in 1999 with a projected population of 18,300 (8,000 households) in 2020.

Public water is provided to about 90 percent of the county's residents. In areas of the county not served by public water, 2 of 5 households rely on private domestic wells and 3 of 5 households rely on other sources. No new customers will be added to public water service through new line extensions in 2000-2020.

#### *Estimated Costs - Proposed Projects, 2000-2005*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
HENRY								-
Henry County Water District #2				2,100	620	800	1,440	4,960
HENRY COUNTY TOTAL				2,100	620	800	1,440	4,960

#### *Estimated Costs - Proposed Projects, 2006-2020*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
HENRY								-
Henry County Water District #2				7,400	300	800	1,250	9,750
HENRY COUNTY TOTAL				7,400	300	800	1,250	9,750

### PUBLIC WATER SYSTEMS

The residents of Henry County are presently provided water by 4 community systems: 3 municipal, Eminence Water Works, Campbellsburg Water Works, and New Castle Water Company; and 1 water district, Henry County Water District #2.

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# WATER SERVICE AREAS

## HENRY COUNTY

### Kentucky

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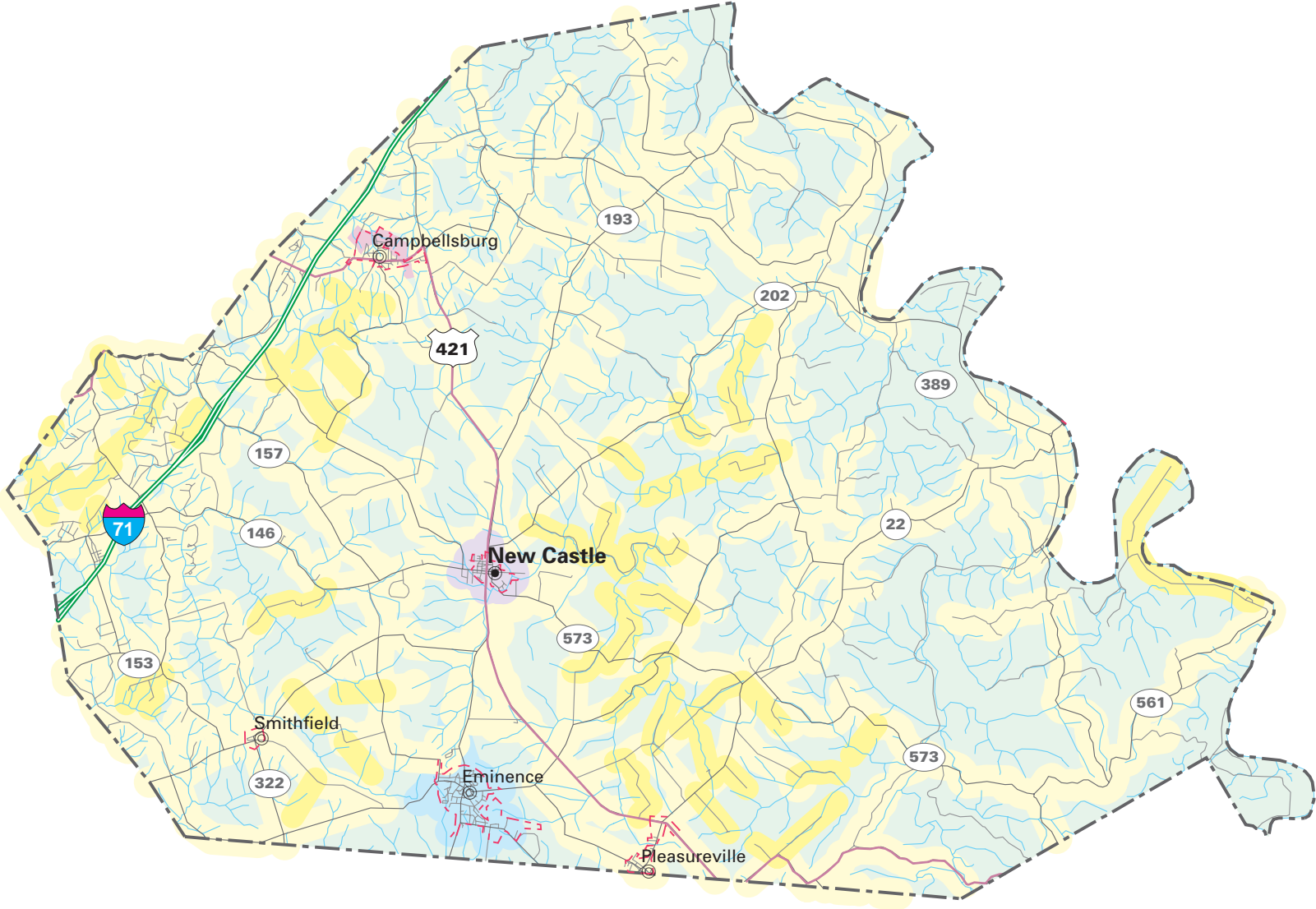
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WATER SERVICE STATUS BY OWNER			
EXISTING SERVICE AREA	PROPOSED SERVICE AREA		
		NEW CASTLE WATER WORKS	
		HENRY COUNTY WATER DISTRICT #2	
		EMINENCE WATER WORKS	
		CAMPBELLSBURG WATER WORKS	

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## **HENRY COUNTY WATER DISTRICT #2**

PWSID: ..... 0520192  
System Type: ..... COMMUNITY  
Owner Type: ..... WATER DISTRICT  
Surface Source:  
Purchase Source: ..... HENRY COUNTY WATER DISTRICT NUMBER 2  
Well Source: ..... Yes  
Sells Water to: ..... HENRY COUNTY WATER DISTRICT #2  
Treatment Plant Capacity (MGD): ..... 4.00  
Percent Daily Average Production: ..... 0.00  
Total Tank Storage Capacity (gallons): ..... 999.00  
Total Service Connections: ..... 6,203.00  
Number of Employees: ..... 17.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class: ..... 3B  
Customer Rate for 1,000 Gallons: ..... 6.40  
O/M costs 1997: ..... 1,095,457.00  
O/M costs per Service Connection: ..... 226.47  
Net Revenue 1997: ..... 967,201.00  
Total Water Produced 1997 (gallons): ..... 687,810,000.00  
Water Sold 1997 (gallons): ..... 486,292,680.00  
Unaccounted-for Water 1997 (%): ..... 7.73

Henry County Water District #2 (HCWD#2) water source is ground water from the Trimble County portion of the (Ohio) aquifer. They have 6 wells located in Trimble County with unlimited source of raw water to supply any future needs. The HCWD#2 currently services 3,932 customers in Henry County, 519 in Trimble County, 149 in Oldham County, 26 in West Carroll County, and 210 in Shelby County. Additionally, the district sells finished water to 3 cities (Campbellsburg, Eminence, and New Castle) who then distribute water within and beyond their local boundaries. The District has a new water treatment plant located on Morton Ridge Road in Trimble County with a capacity of 4 million gallons per day. There are 9 elevated storage tanks with storage capacity of 1,660,000 gallons, with additional 1.8 million gallons at the plant. 6 booster-pumping stations with radio telemetry at all tank levels control pump stations by computer. 3 wells are 400 gpm, 1 well is 700 gpm, 2 wells are 1,000 gpm, with total pumping capacity at 5.6 mgd. Treatment capacity is 4,200 gpm. The average daily production is 1,925,000 gallons of potable water, which is 55% of its designed capacity. Henry County Water District #2 has 17 full-time employees (7 of those are certified operators). Based on preceding statistics and information provided by Henry County Water budget committee and the Water Supply plan, a growth of around 400 rural

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customers per year is predicted. This does not take in to consideration the 3 incorporated towns and a part of West Carroll District. This estimate is for the next 5 years.

The need for water service expansion in the Henry County Water District territory results from the rapid growth and development in rural areas around Interstate- 71, and other land to be developed north of Interstate-71 in Trimble County. The Kentucky State Data Center projects a 15% growth rate for Henry County by the year 2020. They now distribute water to 5 counties (Henry, Oldham, Trimble, Carroll, and Shelby).

#### **EMINENCE WATER WORKS**

PWSID: ..... 0520122  
System Type: ..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source: ..... EMINENCE LAKE  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 0.00  
Percent Daily Average Production: ..... 0.00  
Total Tank Storage Capacity (gallons): ..... 75,000.00  
Total Service Connections: ..... 916.00  
Number of Employees: ..... 6.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

#### **CAMPBELLSBURG WATER WORKS**

PWSID: ..... 0520519  
System Type: ..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source:  
Purchase Source: ..... HENRY COUNTY WATER DISTRICT NUMBER 2  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 0.00  
Percent Daily Average Production: ..... 0.00  
Total Tank Storage Capacity (gallons): ..... 50,000.00  
Total Service Connections: ..... 320.00  
Number of Employees: ..... 3.00  
Treatment Operator Class: ..... 1D  
Distribution Operator Class:

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Customer Rate for 1,000 Gallons:.....	Not available
O/M costs 1997:.....	Not available
O/M costs per Service Connection: .....	Not available
Net Revenue 1997:.....	Not available
Total Water Produced 1997 (gallons):.....	Not available
Water Sold 1997 (gallons):.....	Not available
Unaccounted-for Water 1997 (%): .....	Not available

### **NEW CASTLE WATER WORKS**

PWSID:.....	0520520
System Type:.....	COMMUNITY
Owner Type:.....	MUNICIPAL
Surface Source:	
Purchase Source: .....	HENRY COUNTY WATER DISTRICT NUMBER 2
Well Source:	
Sells Water to:	
Treatment Plant Capacity (MGD):.....	0.00
Percent Daily Average Production:.....	0.00
Total Tank Storage Capacity (gallons):.....	0.00
Total Service Connections: .....	460.00
Number of Employees:.....	50.00
Treatment Operator Class: .....	1D
Distribution Operator Class:	
Customer Rate for 1,000 Gallons:.....	Not available
O/M costs 1997:.....	Not available
O/M costs per Service Connection: .....	Not available
Net Revenue 1997:.....	Not available
Total Water Produced 1997 (gallons):.....	Not available
Water Sold 1997 (gallons):.....	Not available
Unaccounted-for Water 1997 (%): .....	Not available

### **PRIVATE DOMESTIC SYSTEMS**

About 1,450 residents of Henry County rely on private domestic water supplies: 600 on wells and 850 on other sources.

In some of the bottoms of the Kentucky River, most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. Some wells located in the smaller creek valleys and in some less productive areas along the Kentucky River will produce enough water for a domestic supply except during dry weather. In the upland areas of Henry County, which encompasses approximately 70% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather. Ground water in these areas is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

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